

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	42	(313/118-144.ccls. 445/7.ccls.) and ((tip chip) with laser) and ((laser beam) with (inclin\$6 angle angular obliq\$6 acut\$3))	US-PGPUB; USPAT	OR	ON	2009/09/29 19:37
L4	43	(313/118-144.ccls. 445/7.ccls.) and ((tip chip die insert) same weld\$3) and ((laser beam) with (inclin\$6 angle angular obliq\$6 acut\$3))	US-PGPUB; USPAT	OR	ON	2009/09/29 19:38
S1	2	"6215235".pn. "20020121849"	US-PGPUB; USPAT	OR	ON	2008/06/19 15:04
S2	12	"4339540"	US-PGPUB; USPAT	OR	ON	2008/06/19 15:24
S3	16	"4338540"	US-PGPUB; USPAT	OR	ON	2008/06/19 15:24
S4	2	"07022155"	EPO; JPO; DERWENT	OR	ON	2008/06/19 16:15
S5	1	1995-095199.NRAN.	DERWENT	OR	ON	2008/06/19 16:15
S6	16	(313/118-144.ccls. 445/7.ccls.) and oshima-takafumi\$.in.	US-PGPUB; USPAT	OR	ON	2008/06/19 16:34
S7	2	(313/118-144.ccls. 445/7.ccls.) and (resist \$3 near3 weld\$3) and laser and flange	US-PGPUB; USPAT	OR	ON	2008/06/19 16:37
S8	15	(313/118-144.ccls. 445/7.ccls.) and (resist \$3 near3 weld\$3) and laser	US-PGPUB; USPAT	OR	ON	2008/06/19 16:38
S9	279	(313/118-144.ccls. 445/7.ccls.) and (resist \$5 near3 weld\$3) and laser	US-PGPUB; USPAT	OR	ON	2008/06/19 16:39

S10	64	(313/118-144.ccls. 445/7.ccls.) and (resist \$5 near3 weld\$3) and laser and flange	US-PGPUB; USPAT	OR	ON	2008/06/19 16:39
S11	5	((spark\$3 near3 plug) (ignit\$3 near3 (component element))) and (resist \$5 near3 weld\$3) and laser and flange	EPO; JPO; DERWENT	OR	ON	2008/06/19 16:45
S12	35	((spark\$3 near3 plug) (ignit\$3 near3 (component element))) and (resist \$5 near3 weld\$3) and laser	EPO; JPO; DERWENT	OR	ON	2008/06/19 17:21
S13	87	313/141-143.ccls. and ((noble near3 metal near3 (tip die chip)) with (content percentage amount concentration))	US-PGPUB; USPAT	OR	ON	2008/06/19 17:45
S14	64	(313/118-144.ccls. 445/7.ccls.) and (resist \$5 near3 weld\$3) and laser and (flange buldg \$3)	US-PGPUB; USPAT	OR	ON	2008/06/19 19:15
S15	70	(313/118-144.ccls. 445/7.ccls.) and (resist \$5 near3 weld\$3) and laser and (flange rim ridge buldg\$3)	US-PGPUB; USPAT	OR	ON	2008/06/19 19:16
S16	2	"63062870"	EPO; JPO; DERWENT	OR	ON	2008/06/19 22:50
S17	10	(313/118-144.ccls. 445/7.ccls.) and (laser same (flange rim ridge buldg\$3)) and ((composition percentage content amount) with (material alloy noble) with (tip chip die))	US-PGPUB; USPAT	OR	ON	2008/06/19 22:54

S18	11	(313/118-144.ccls. 445/7.ccls.) and (laser same (flange rim ridge buldg\$3)) and ((composition percentage component "%" weight content amount) with (material alloy noble) with (tip chip die))	US-PGPUB; USPAT	OR	ON	2008/06/19 23:05
S19	60	(313/118-145.ccls. 445/7.ccls.) and laser and (flange rim ridge buldg\$3) and ((composition percent percentage component "%" weight content amount) with (material alloy noble) with (tip chip die))	US-PGPUB; USPAT	OR	ON	2008/06/19 23:07
S20	2	"03176979"	EPO; JPO; DERWENT	OR	ON	2008/06/19 23:12
S21	33	((spark\$3 near3 plug) (ignit\$3 near3 (component element))) and ((tip die chip) with peel\$3)	EPO; JPO; DERWENT	OR	ON	2008/06/19 23:26
S22	68	((spark\$3 near3 plug) (ignit\$3 near3 (component element))) and ((tip die chip) with ((bond \$3 near3 strenght) exfoliat\$3 crack\$3))	EPO; JPO; DERWENT	OR	ON	2008/06/19 23:44
S23	93	(313/118-145.ccls. 445/7.ccls.) and laser and ((tip chip die) with (peel\$5 crack\$3 fall \$out (fall\$3 near3 out))) and ((composition percent percentage component "%" weight content amount) with (material alloy noble) with (tip chip die))	US-PGPUB; USPAT	OR	ON	2008/06/19 23:57

S24	4	(313/118-144.ccls. 445/7.ccls.) and (relaxat\$3 near3 metal)	US-PGPUB; USPAT	OR	ON	2008/06/20 03:04
S25	70	(313/118-144.ccls. 445/7.ccls.) and (stress near3 reduc\$5)	US-PGPUB; USPAT	OR	ON	2008/06/20 03:06
S26	44	("2470033"   "3146370"   "3407326"   "3868530"   "4122366"   "4488081").PN. OR ("4540910").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/20 03:07
S27	38	S26 and (weld\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/20 03:08
S28	1	"2106578".pn.	US-PGPUB; USPAT	OR	ON	2008/06/20 09:25
S29	1	"6963164".pn.	US-PGPUB; USPAT	OR	ON	2008/06/20 09:32
S30	1	"6963165".pn.	US-PGPUB; USPAT	OR	ON	2008/06/20 09:33
S31	44	("2470033"   "3146370"   "3407326"   "3868530"   "4122366"   "4488081").PN. OR ("4540910").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/20 09:54
S32	24	(313/118-144.ccls. 445/7.ccls.) and (stress near3 reliev\$5)	US-PGPUB; USPAT	OR	ON	2008/06/20 09:56
S33	1	"6215235".pn.	US-PGPUB; USPAT	OR	ON	2008/12/30 18:42
S34	17	("5347193"   "5440198"   "5461210"   "6078129").PN. OR ("6215235").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 18:48
S35	66	(313/118-144.ccls. 445/7.ccls.) and ((tip chip) with (composition content percentage percent amount ratio) with (interface boundary surface)) and ((tip chip) with laser)	US-PGPUB; USPAT	OR	ON	2008/12/30 18:55

S36	94	(313/118-144.ccls. 445/7.ccls.) and ((tip chip) with (composition content percentage percent amount ratio) with (interface boundary distance position location surface)) and ((tip chip) with laser)	US-PGPUB; USPAT	OR	ON	2008/12/30 18:56
S37	22	(313/118-144.ccls. 445/7.ccls.) and ((tip chip) with (composition content percentage percent amount ratio) with (interface boundary distance position location surface)) and ((tip chip) with laser) and ((laser beam) with (inclin\$6 angle angular obliq\$6 acut\$3))	US-PGPUB; USPAT	OR	ON	2008/12/30 18:58
S38	27	(313/118-144.ccls. 445/7.ccls.) and ((tip chip) with (composition compound material content percentage percent amount ratio) with (interface boundary distance position location surface)) and ((tip chip) with laser) and ((laser beam) with (inclin\$6 angle angular obliq\$6 acut\$3))	US-PGPUB; USPAT	OR	ON	2008/12/30 19:01
S39	1	"20060276097"	US-PGPUB; USPAT	OR	ON	2008/12/30 19:07
S40	69	(313/118-144.ccls. 445/7.ccls.) and ((tip chip) with (composition content percentage percent amount ratio) with (molten melted melting fusing fused fusion)) and ((tip chip) with laser)	US-PGPUB; USPAT	OR	ON	2008/12/30 19:13

S41	69	(313/118-144.ccls. 445/7.ccls.) and ((tip chip) with (composition compound content percentage percent amount ratio) with (molten melted melting fusing fused fusion)) and ((tip chip) with laser)	US-PGPUB; USPAT	OR	ON	2008/12/30 19:14
S42	9	"09106880" "07022155" "2001060488"	EPO; JPO; DERWENT	OR	ON	2009/04/25 10:05

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	22	(313/118-144. ccls. 445/7.ccls.) and ((tip chip) with laser) and ((laser beam) with (inclin\$6 angle angular obliq\$6 acut\$3))	US-PGPUB; UPAD	OR	ON	2009/09/29 19:37
L3	25	(313/118-144. ccls. 445/7.ccls.) and ((tip chip die insert) same weld \$3) and ((laser beam) with (inclin \$6 angle angular obliq\$6 acut\$3))	US-PGPUB; UPAD	OR	ON	2009/09/29 19:37
L5	155	(313/118-144. ccls. 445/7.ccls.) and (resist\$5 near3 weld\$3) and laser	US-PGPUB; UPAD	OR	ON	2009/09/29 19:39
L6	24	(313/118-144. ccls. 445/7.ccls.) and (tip chip die insert) and ((laser beam) with (inclin \$6 angle angular obliq\$6 acut\$3))	US-PGPUB; UPAD	OR	ON	2009/09/29 19:40

L7	160	(313/118-144. ccls. 445/7.ccls.) and ((tip chip die insert) same weld \$3 same (laser beam))	US-PGPUB; UPAD	OR	ON	2009/09/29 19:41
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